

STEVCO



SEALS



MECHANICAL SEAL SOLUTIONS



TYPE 4-1 & 4-5

(Similar to Crane type 8-1 & 9, 109)

DESIGN FEATURES & BENEFITS

O-Ring / Wedge Designs

Permits accommodation of many different fluids through the use of a wide variety of materials.

Mechanical Drive Design

Reduces slippage on shaft and sleeve to eliminate galling and premature wear. Seals are bi-rotational.

Lapped Faces

Lapping process results in high precision finish with optimal flatness.

Compact Design

Permits use in all types of rotating equipment - centrifugal pumps, mixers and agitators.

Field Repairable

Reduces inventory requirements. Seals can be repaired easily on-site or at Stevco Seals & Pumps seal repair centre.

MATERIAL OPTIONS

Faces:

Rotary- Carbon & Silicon Carbide

Stationary- Ceramic, Silicon Carbide and Tungsten Carbide

Hardware:

316 S/S, Hast C and Monel

Springs:

316 S/S, Monel and Hast C

SEAL APPLICATIONS

General industrial applications including:

Process services, lubricating liquids, aqueous solutions, chemicals, corrosives, and some acids.

Rugged mechanical seals available in a wide variety of elastomers or wedge, handling practically any industrial fluid.

All components are held together by a snap ring in a unitised construction design which eases installation and removal.

OPERATING CONDITIONS

•Pressures:

Type 4-1 & 4-5: To 350psig (24 bar)

2400kPa

•Temperatures:

-40°C to +260°C

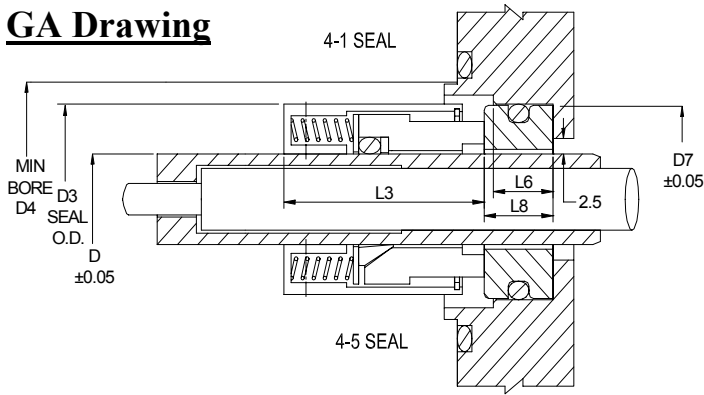
(See reverse page for Secondary Seal Graph)

•Speed:

Up to 25 m/s/5000 fpm.

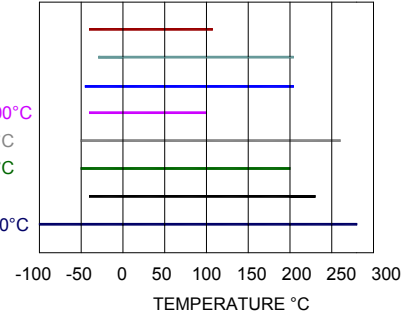
STEVCO 4-1 & 4-5 SPECIFICATIONS

GA Drawing



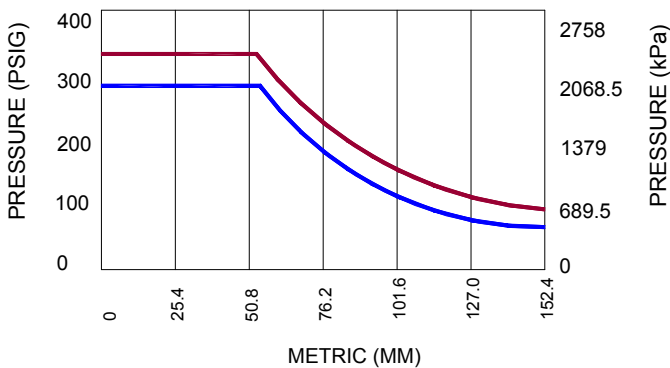
ELASTOMER TEMPERATURE LIMITS

- BUNA -40°C TO 107°C
- VITON -29°C TO 204°C
- EPDM -45°C TO 204°C
- NEOPRENE -40°C TO 100°C
- KALREZ -50°C TO 260°C
- SILICON -50°C TO 200°C
- PTFE -40°C TO 230°C
- GRAFOIL -100°C TO 280°C



SEAL SIZE		D	D3	D4	D7	L3	L6	L8
IMPERIAL	METRIC							
0.75	19.00	19.05	34.00	37.00	34.93	22.00	8.71	10.31
0.88	22.20	22.22	37.20	40.00	38.10	24.00	8.71	10.31
1.00	25.40	25.40	40.30	43.00	41.27	25.00	9.52	11.10
1.13	28.50	28.57	43.50	46.00	44.45	27.00	9.52	11.10
1.25	31.70	31.75	48.30	51.00	47.62	27.00	9.52	11.10
1.38	34.92	34.92	51.50	54.00	50.80	29.00	9.52	11.10
1.50	38.10	38.10	54.60	58.00	53.97	29.00	9.52	11.10
1.63	41.20	41.27	61.00	64.00	60.32	35.00	9.52	11.10
1.75	44.40	44.45	64.20	67.00	63.50	35.00	9.52	11.10
1.88	47.60	47.62	67.30	70.00	66.67	35.00	11.10	12.70
2.00	50.80	50.80	70.50	73.00	69.85	35.00	11.10	12.70
2.13	53.90	53.97	76.90	80.00	76.20	43.00	11.10	12.70
2.25	57.10	57.15	80.00	83.00	79.37	43.00	11.10	12.70
2.38	60.30	60.32	83.20	86.00	82.55	43.00	12.70	14.27
2.50	63.50	63.50	86.40	89.00	85.72	43.00	12.70	14.27
2.63	66.60	66.67	89.60	92.00	85.72	43.00	12.70	14.27
2.75	69.80	69.85	92.70	96.00	88.90	43.00	12.70	14.27
2.88	73.00	73.02	95.90	99.00	95.25	43.00	14.30	15.87
3.00	76.20	76.20	97.50	100.00	98.42	43.00	14.30	15.87
3.13	79.30	79.37	100.70	104.00	101.60	43.00	14.30	15.87
3.25	82.50	82.55	105.40	108.00	104.77	43.00	14.30	15.87
3.38	85.70	85.72	108.60	111.00	107.95	43.00	16.70	19.84
3.50	88.90	88.90	111.80	115.00	111.12	43.00	16.70	19.84
3.63	92.00	92.07	115.00	118.00	114.30	43.00	16.70	19.84
3.75	95.20	95.25	118.10	121.00	117.47	43.00	16.70	19.84
3.88	98.40	98.42	121.30	124.00	120.65	43.00	16.70	19.84
4.00	101.60	101.60	124.50	127.00	123.82	43.00	16.70	19.84

PV LIMITS



TYPE 4-1 CARBON VS CERAMIC
(1800 rpm)

TYPE 4-1 & 4-5 CARBON VS
TUNGSTEN CARBIDE/SILICON CARBIDE
(1800 rpm)



STEVCO SEALS AND PUMPS PTY LTD

11 Samantha Place, SMEATON GRANGE NSW 2567 ~ Ph (02) 4629 6500

STEVCO SEALS & PUMPS VICTORIA P/L

U8, 53 Gateway Blvd, EPPING VICTORIA 3076 Ph (03) 9408 3875